

UNIVERSAL CALIBRATOR

MODEL MC-10



The new Model MC-10 is an accurate, secondary standard source of voltage, current and resistance. It can be used to test or calibrate a wide variety of instruments such as multimeters, oscilloscopes, vacuum-tube

ABSOLUTE ACCURACY: 0.2% of reading, without corrections of any kind. Certificate of Traceability to NBS furnished.

RESOLUTION: at least 0.05% at any output setting.

READS % ERROR of instrument under test, or operates in conventional manner.

DIGITAL SETTING of nominal output eliminates reading errors.

7,700,000 full-scale calibration points (1,100,000 increments in each of 7 functions)

voltmeters, graphic recorders, panel meters and portable standards. The ruggedness and reliability of the Model MC-10 is equal to that of its military counterpart, the TS-2049/U, now in service throughout the world.

RMS, AVERAGE or PEAK-to-PEAK AC output selected by front panel switch.

NO DOWN-SCALE TRACKING ERROR, no correction to apply.

NO LOADING ERRORS POSSIBLE, no burden tables to consult.

NO TEMPERATURE ERRORS, 45° F. to 95° F.

60 CPS OUTPUT IS STANDARD. Other frequencies available.

DC OUTPUTS FILTERED to better than 0.5% ripple.

INTERNAL STANDARD CELL and temperature-compensated zener reference supply maintain accuracy of calibration.

QUANTITY	RANGE	INCREMENTS	ACCURACY	OUTPUT
RMS Volts	0-1.099V	1 millivolt	±0.2% of setting	10 mA max.
AVERAGE Volts	0-1.099V	1 millivolt	±0.2% of setting	10 mA max.
PEAK-to-PEAK Volts	0-1.099V	1 millivolt	±0.2% of setting	10 mA max.
DC Volts	0-1.099V	1 millivolt	±0.2% of setting	10 mA max.
AC Current, RMS	0-1.099A	1 microamp	±0.2% of setting	0.5V max. drop across load.
DC Current	0-1.099A	1 microamp	±0.2% of setting	0.5V max. drop across load.
Resistance	0-1.1MΩ	1 ohm	±0.1% of setting (+0.5 ohms)	0.25 watt max. dissipation per resistor.

Power: 105-125V, 60 cps, 1Ø, 90 watts. Where severe or frequent line transients occur, it is desirable to operate the Calibrator from a line regulator of the electronic type.

Size: 23" W x 13" H x 15" D in cabinet. 10½" panel space in standard rack.
Weight: 80 lbs.

RUGGED MULTITESTER



Rugged Multitester Model MM-5

Designed by Abbey, supplied to Armed Forces as AN/USM-162, this new tester is the logical choice for applications requiring high accuracy and complete reliability.

Unbreakable, even in 3-foot drops onto steel

Guaranteed accuracy: 2% DC, 3% AC

Sensitivity: 20K ohms per volt DC, 5K ohms per volt AC

Frequency range: 30 c/s—30 kc/s ±1%

SEMI-CONDUCTOR TEST SET



Semiconductor Test Set Model TT-22

Rugged, reliable, completely self-contained, Model TT-22 performs in-circuit and out-of-circuit measurements of transistors, diodes, and silicon controlled rectifiers. Built to military specifications, and supplied to the Armed Forces as TS2086/U.

Measures V_{sat} and R_{sat} in-circuit.

Measures β_{DC} , V_{sat} , R_{sat} , I_{cbo} , I_{ces} out-of-circuit.

Accuracy ±3%.

®Registered Trademark, Patents Pending

Prices and specifications subject to change without notice.

ABBEY

ELECTRONICS CORP.



2 SIXTH STREET NEW HYDE PARK, L.I., N. Y. 11044

516 CH 8-8060

DIGITAL PANEL METER

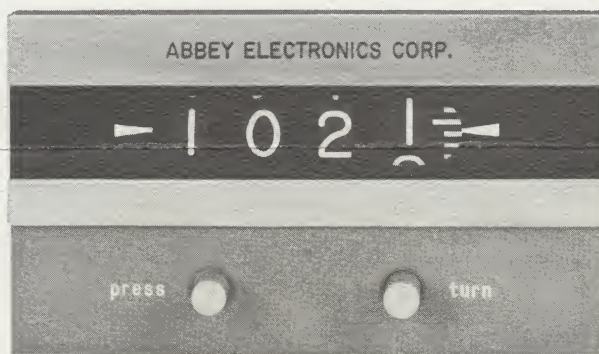
Labtronics, Inc.
161 Pickard Bldg.
Syracuse, N. Y. 13211
315-454-9314

MODEL DM-25
DIGIMETER®

The new DIGIMETER® Model DM-25, offers a simple, inexpensive means of incorporating digital readout into any equipment where accuracy and readability are important.

Simple to install, the DIGIMETER® is supplied complete and ready to operate. It is only necessary to connect an input signal, and to plug in the power cable. One model provides any single or multiple range, easily set and changed at will.

For new systems, or to upgrade existing instruments, DIGIMETERS® provide accurate, direct-reading, digital measurement of any parameter for which suitable transducers exist. This includes absorption, acceleration, current, displacement, distortion, emission, field strength, flow, frequency, pH, position, pressure, strain, temperature, torque, voltage, weight and many other parameters.



ACTUAL SIZE

DIGIMETER®, Model DM-25. Rectangular bezel, shown full size, includes press and turn zeroing controls — no extra panel space required.

SPECIFICATIONS

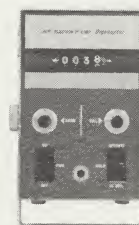
- **Accuracy:** 0.1% of reading, $\pm$ linearity tolerance.
- **Linearity:** 0.1% or 0.05% of full-scale.
- **Resolution:** 0.05% of full-scale.
 - Response time: <4 seconds, zero to full scale.
 - Input Impedance: $>10^8$ ohms on 100mV range. 10 megohms on other ranges.
 - C. M. R. >100 db for a 60 cps signal between the shorted input terminals and ground.
 - Overload Capability: >50 volts on 100 mV range.
 - Power Requirements: 115V $\pm 10\%$, 50-60 cps, 25VA
- **Readout:** 0000 to 1100 or 0000 to 2200.
- **Numeral Size:** $\frac{1}{4}$ " high x $\frac{11}{64}$ " wide.
- **Viewing Angle:** $>90^\circ$, horizontal and vertical planes.
 - Temperature Range: 60°F to 105°F , for full accuracy.
 - Isolation: Normal: $>10^8$ ohms // $0.1 \mu\text{F}$, Signal to ground. AC Isolated: $>10^8$ ohms // 15 pF , Signal to ground.
 - AC Rejection: >50 db for a 60 cps signal injected in series with the input terminals.
 - Initial Calibration: 100 millivolts DC, full-scale.
 - Calibration Trimmer Range: 95 to 105 millivolts, full-scale.
- Front Panel Space: Rectangular Bezel: $1\frac{7}{8}$ " high x $3\frac{1}{8}$ " wide. Round Bezel $3\frac{1}{2}$ " Diam.
- Space Behind Panel: Single Case: $3\frac{1}{2}$ " high x $3\frac{3}{8}$ " wide x 11" deep Dual Case: $3\frac{1}{2}$ " high x $3\frac{3}{8}$ " wide x $5\frac{1}{2}$ " deep, each

DIGITAL READOUT FROM ANY ANALOG INDICATING INSTRUMENT

MODEL DA-31 DIGIDAPTER® provides digital readout from any laboratory instrument.

The DIGIDAPTER® is a complete, portable instrument that can plug directly into any existing analog equipment to convert it to digital readout. A single DIGIDAPTER® will measure any parameter, depending on the equipment into which it is connected. For example, plugged into a distortion analyzer it

will indicate % Harmonic Distortion. Connected to a calorimeter, it will indicate Watts. Other analog instruments that can be converted to digital readout with a single DIGIDAPTER® include VTVMs, multimeters, portable standards, gaussmeters, load cells, electronic thermometers, pH meters, calibrators and many others. For complete information on the DIGIDAPTERS® request Bulletin DA.



ABBEE



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Please call or write for complete information on these and other Abbey products.

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